

Q2 HW3 - All work on looseleaf.

Date_____ Period_____

Solve each equation. Remember to check for extraneous solutions.

1) $\sqrt{a} = 3$

2) $\sqrt{n-7} = 6$

3) $\sqrt{65x-1} = 8$

4) $\sqrt{\frac{p}{7}} = 8$

5) $1 = \sqrt{5-p}$

6) $\sqrt{25-2n} = 5$

7) $\sqrt{42-n} = n$

8) $p = \sqrt{-12+7p}$

9) $x = \sqrt{-7+8x}$

10) $\sqrt{30-x} = x$

Simplify.

11) $(-2+i) - (-8-6i)$

12) $(-5-8i) - (-6-7i)$

13) $(8+8i) - (-5-8i)$

14) $(-8-3i) + (-7-3i)$

15) $-7(-6-5i)$

16) $(-7i)^3$

17) $8(-3-6i)$

18) $(-2i)^2$

19) $(6-i)(7-6i)$

20) $(-6+6i)^2$

Simplify. (Rationalize the denominators).

21) $\frac{6i}{-2-7i}$

22) $\frac{i}{1+3i}$